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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,302	02/17/2004	Donald P. Spitzer	02008-01	9759
8015	7590	07/26/2007	EXAMINER	
CYTEC INDUSTRIES INC.			HRUSKOCI, PETER A	
1937 WEST MAIN STREET				
P.O. BOX 60			ART UNIT	PAPER NUMBER
STAMFORD, CT 06904-0060			1724	
			MAIL DATE	DELIVERY MODE
			07/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/780,302	SPITZER ET AL.	
	Examiner	Art Unit	
	Peter A. Hruskoci	1724	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 8/9 and 9/14/04, 11/4/05, and 7/11/07.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 8-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 8 and 9 is/are allowed.
- 6) Claim(s) 10-13 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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The disclosure is objected to because of the following informalities: It is submitted that page 1 of the specification should be amended to include a reference to the parent application.

Appropriate correction is required.

Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 13 “the formula” lacks clear antecedent basis. Claim 13 is further considered misdescriptive since the formula’s fail to include a “graft”, and include a NH₄ instead of an H functional group.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent 11-090488 Kobata et al.. Kobata et al. disclose (see Translation pages 3-5) a polymer formed from acrylamide, acrylic acid, and silanol groups substantially as claimed. The claims differ from Kobata et al. by reciting that the polymer has a specific formula. It is submitted that the polymerization of acrylamide, acrylic acid, and the silane monomers as in Kobata et al. would appear to form a polymer including the recited formula. It would have been obvious to one skilled in the art to modify the teachings of Kobata et al. by forming a polymer of the recited formula, to aid a producing a polymer for inhibiting scale formation in a water system. The specific percent of monomer units in the polymer, would have been considered an

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obvious matter of process optimization to one skilled in the art, depending on the specific use of the polymer and results desired, absent a sufficient showing of unexpected results.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent 11-090488 Kobata et al. as above, and further in view of Timmerman et al. 5,646,210. The claim differs from Kobata et al. by reciting that the polymer is a graft copolymer having a specific formula. Timmerman et al. disclose (see col. 3 line 15 through col. 6 line 32) that it is known in the art to form a graft copolymer from acrylic acid, silane, and other graft polymerizable polymers, to stabilize the polymer beads. It would have been obvious to one skilled in the art to modify the polymer of Kobata et al. by forming the recited graft copolymer in view of the teachings of Timmerman, to aid in stabilizing the polymer. The specific percent of monomer units in the polymer, would have been considered an obvious matter of process optimization to one skilled in the art, depending on the specific use of the polymer and results desired, absent a sufficient showing of unexpected results.

Claims 8 and 9 are allowed.

Claim 13 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter A. Hruskoci whose telephone number is (571) 272-1160. The examiner can normally be reached on Monday through Friday from 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Peter A. Hruskoci
Primary Examiner
Art Unit 1724

7/18/07